



CowScout™

Animal Monitoring System



Rumination
time now
available



engineering for
a better world

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**GET MORE HERD HEALTH
INSIGHTS WITH COWSCOUT™**

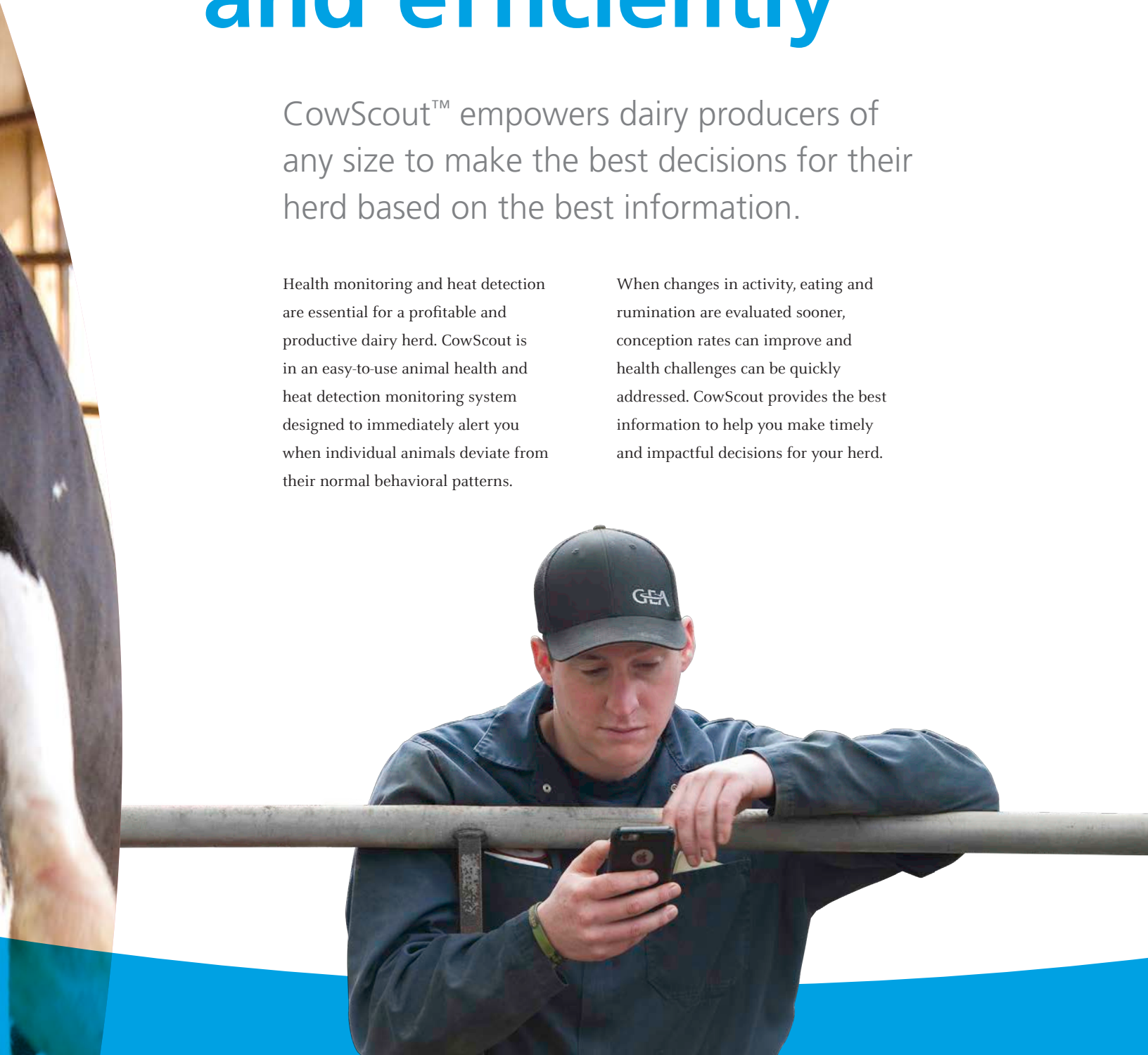
Health monitoring and heat detection are essential components to a profitable and productive dairy herd.

Monitor your herd effectively and efficiently

CowScout™ empowers dairy producers of any size to make the best decisions for their herd based on the best information.

Health monitoring and heat detection are essential for a profitable and productive dairy herd. CowScout is an easy-to-use animal health and heat detection monitoring system designed to immediately alert you when individual animals deviate from their normal behavioral patterns.

When changes in activity, eating and rumination are evaluated sooner, conception rates can improve and health challenges can be quickly addressed. CowScout provides the best information to help you make timely and impactful decisions for your herd.



Success Stories



RICHARD TENBRINKE
Gracemar Farms

“We installed CowScout a few months before our DairyProQ rotary parlor was up and running. The eating time feature is very nice: if a cow isn’t eating, we get an alarm to our phone so I can look at her. The system reads every two hours, so you get more accurate heats. I can log in from my phone at any time and click on a cow to find everything I need to know about her.”



JOHN WERRY
Loa-de-mede Farms, Inc.

“Since installing CowScout, our herd’s pregnancy rate has almost doubled. It was a great investment, if you look at our improvement in reproduction alone. Eating time helps us monitor herd health and we can catch cows before problems show.”



KEVIN WERKEMA
Werkholm Holsteins, Ltd.

“Our pregnancy rate was declining and CowScout helped us catch more cows in heat and use our synchronization protocol less. We use eating time to catch sick cows sooner. The easy-to-use wireless capabilities of the system were a major selling point for us.”





CowScout™ Neck Tag

Accurate heat detection with valuable data for eating and rumination help you better manage your herd.

Heat detection

The CowScout neck tag works 24/7 to monitor cow activity by identifying neck movements, such as sniffing and chin resting that indicate if a cow is in heat. With this real-time data, cows in heat can be properly identified, allowing for improved insemination results, higher pregnancy rates, shorter calving intervals and reduced insemination costs — all with lower labor inputs.

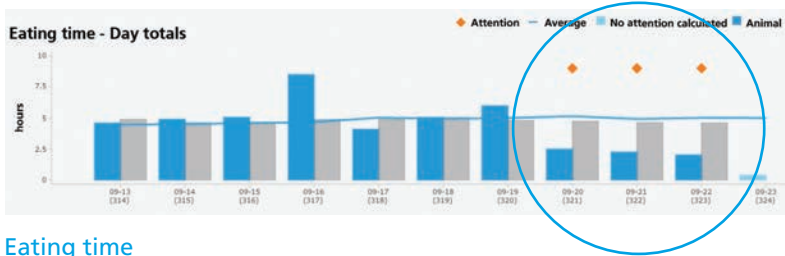
Eating and rumination time

The CowScout neck tag detects specific movement patterns related to forage intake, recording the time individual cows spend eating. It also records when the animal is regurgitating food and resting peacefully to measure her rumination time. Changes in eating and rumination behavior as well as measurements of activity versus inactivity, may indicate potential health problems like ketosis, rumen acidosis and lameness. Having both eating and rumination time data allows you to identify sick cows at an earlier date — helping to minimize treatment costs and drops in milk production.

Benefits at a glance

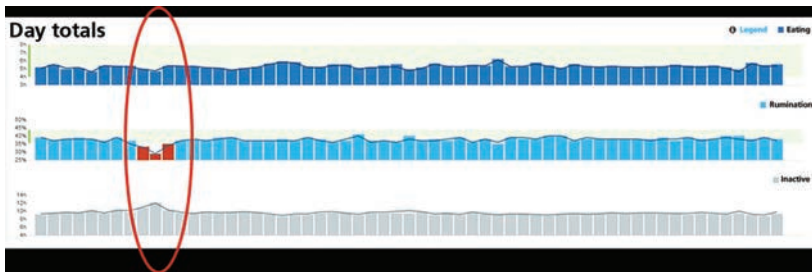
- Identify health concerns earlier
- Improve overall herd management
- Monitor cows on an individual- and group-basis
- Obtain accurate heat detection 24/7
- Gain more control over every cow's health and production with less labor
- Access data from wherever you are via computer, phone or tablet
- Receive alerts when tag is incorrectly fastened
- Have flexible options easily adapted to any herd size or management style

Eating and rumination times combined with inactive times offers the most accurate data for early detection of health problems.



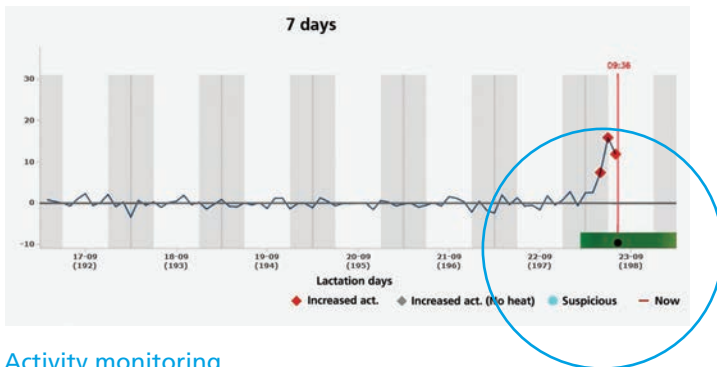
Eating time

This cow generated attentions (orange diamond) for the past three consecutive days. She has spent less time eating (blue bar) when compared to both the group average (gray bar) and her individual trend (blue baseline). She should be evaluated immediately.



Group eating, rumination and inactive time

Comparing eating, rumination and inactivity can determine issues for an entire group. For this cow group, rumination decreased and inactivity increased indicating an error in feed composition. The farm should adjust the ration.



Activity monitoring

Attentions were generated for this cow's increased activity on the evening of September 22. The optimum insemination time is shown in the green horizontal bar; she should be inseminated immediately.



CowScout™ Leg Tag

Monitor your herd effectively and efficiently

Heat detection

The CowScout leg tag monitors cow movements that indicate if a cow is in heat — 24/7. With this real-time data, cows in heat can be accurately identified allowing for improved insemination results, higher pregnancy rates, shorter calving intervals and reduced insemination costs — all with a decrease of labor input.

Standing and lying time

Cow movement and behavior monitoring can provide key insights to improve herd health and your farm's management strategies. The CowScout leg tag continually monitors five of a cow's daily behaviors: standing time, lying time, walking time, stand-up count and step count. Changes from her average measurement of normal behavior will help you determine whether she needs further attention — before it impacts her health and production.

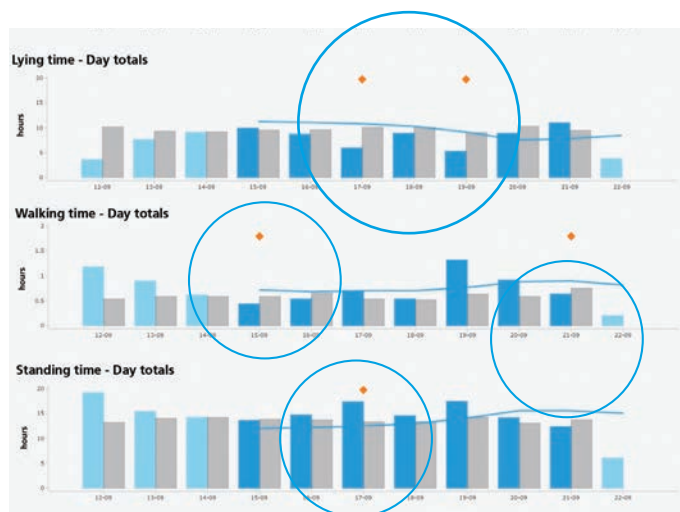
Benefits at a glance

- Identify possible health concerns or problems with stall conditions or cow comfort earlier with standing and lying time measurements and alerts
- Obtain accurate heat detection 24/7
- Improve overall herd management
- Gain more control over every cow's health and production with less labor
- Access data from wherever you are via computer, smartphone or tablet
- Attach easily with patented leg strap
- Receive alerts when tag is incorrectly fastened
- Easily adapt to any herd size or management style

Animal	Group	Lact. days	Repr state	Step #	Lying 🕒	Standing 🕒
<input type="checkbox"/> 140	1	427	Pregnant	5431 (11%)	6:33 (-31%)	16:14 (20%)
<input type="checkbox"/> 105	1	933	Pregnant	4782 (338%)	9:07 (-52%)	13:55 (194%)
<input type="checkbox"/> 356	2	469	Pregnant	11360 (150%)	3:45 (-58%)	17:46 (26%)
<input type="checkbox"/> 97	4	334	Pregnant	4598 (-10%)	8:33 (-29%)	14:24 (34%)
<input type="checkbox"/> 369	4	523	Pregnant	4722 (-41%)	10:25	12:43 (6%)
<input type="checkbox"/> 73	5	369	Pregnant	6153 (60%)	6:43 (-51%)	15:57 (57%)

Health and management dashboard

The dashboard indicates which animals have generated attentions for increases or decreases in step count, lying time and/or standing time over the previous week's average. In this instance, all of these animals are confirmed pregnant, so a heat is not the most likely cause for changes in activity, but lameness, crowding, or other factors could be. The data for each animal should be reviewed in detail to decide if the animal should be assessed immediately or watched for further indications.



Walking, standing, lying & step counts

Over the past seven days, this cow generated attentions (orange diamond) for decreases in walking time and lying time, both of which were less than the group average (gray bar) and the individual trend (blue baseline). An attention was also generated for an increase in standing time that was greater than the herd average and baseline. This animal needs to be evaluated.



System features

Less expensive start-up—no complex software is required. Connect via Internet to have mobile access to your data. If the Internet is not available in your area to check data, you can connect directly to your PC.

ISO identification option—for operations looking for more advanced management applications in the parlor and cow sorting, CowScout can be integrated with DairyPlan C21, giving you complete identification capabilities.

Installed and supported by GEA dealers—a professional network with unsurpassed dairy equipment experience, available 24/7.

Low-maintenance costs—proven long-lasting battery life and no expensive batteries to replace.

Industry-leading technology—uses the latest version of accelerometer technology for the most accurate readings.

More ways to view information—seven-day, 70-day, lactation and seven-day step counter providing you more options than any other system.

How it works

Data is stored with cloud technology—accessible anytime and anywhere.

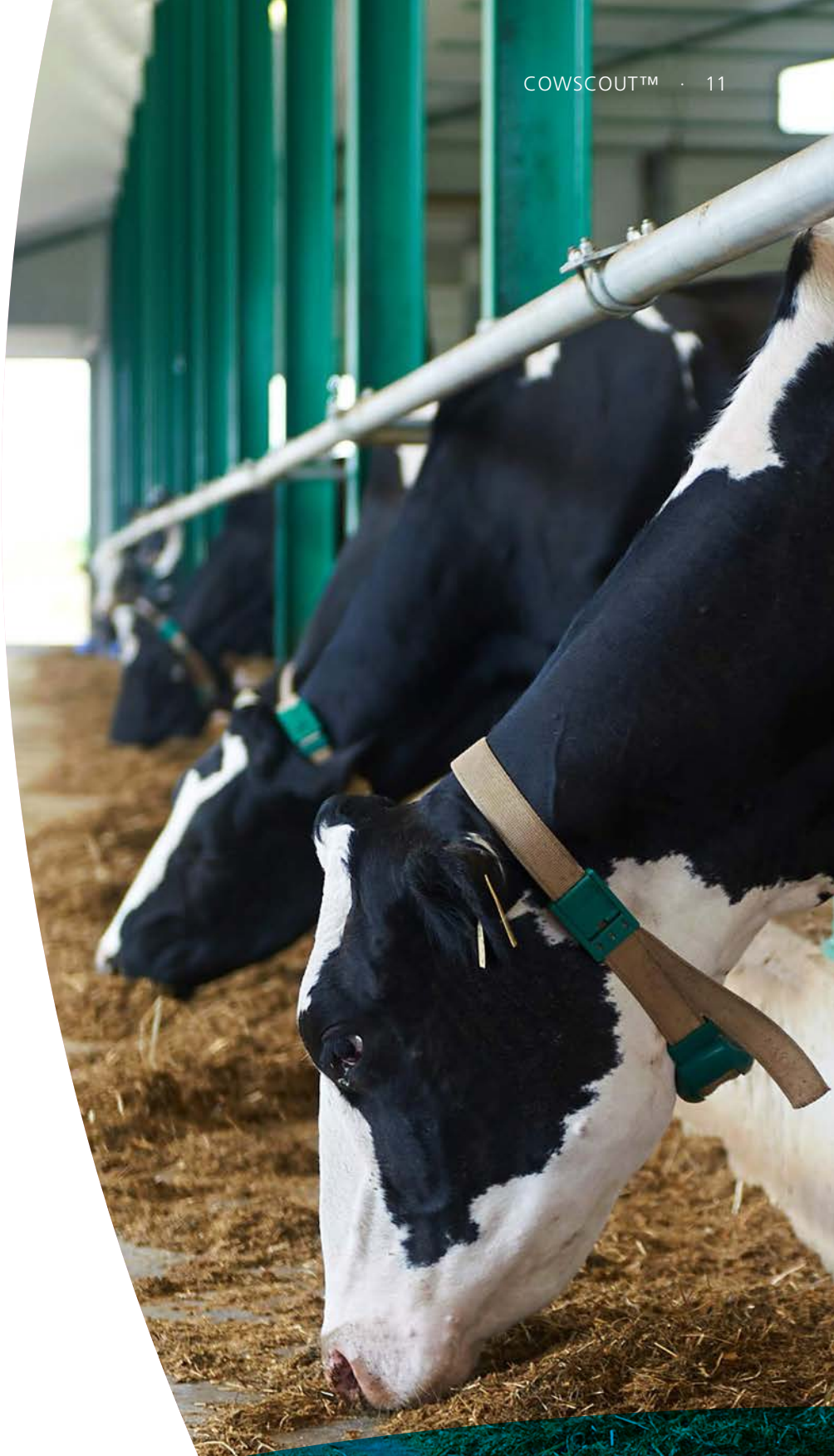
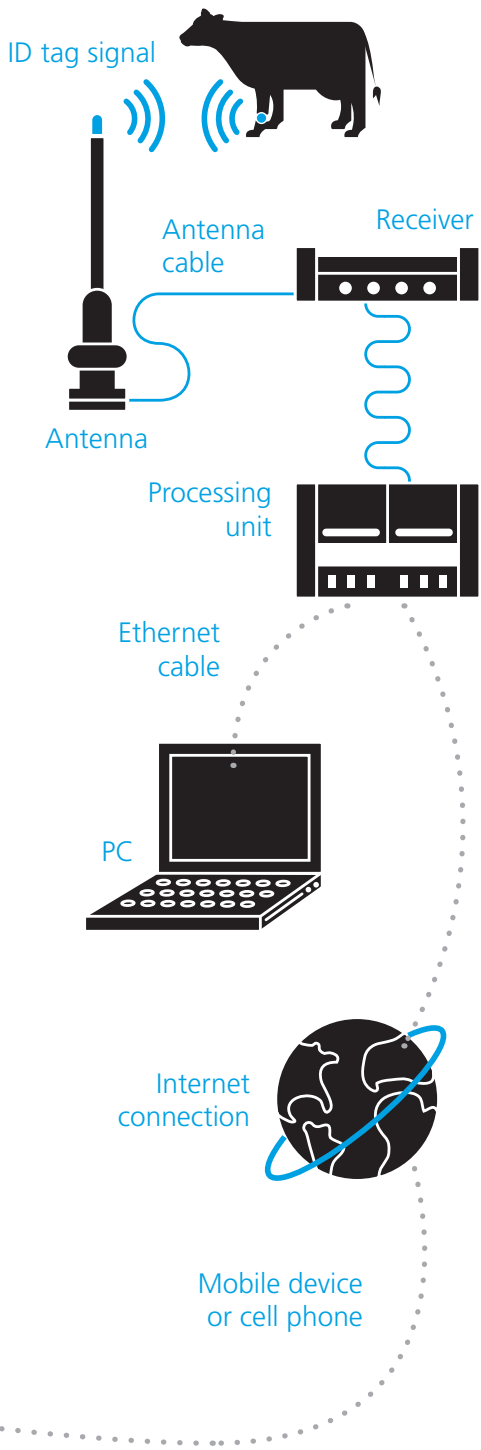
Data is measured continuously—you will always have the latest information and receive immediate alarms. Data is displayed and analyzed in two-hour increments and can be stored in the tag for up to 24 hours.

Data transmission is not deterred—ultra high frequency (UHF) wireless signals are not obstructed by dirt, manure or internal building components, which can be common with other systems using infrared devices. The UHF technology also provides a wider read-range of up to 300 feet with a standard antenna or up to 3,280 feet with a long-range antenna.

Data transmitted to a wireless receiver—CowScout can be used anywhere with minimal system implementation for cows or heifers. It does not require a trip to the parlor or walk-through portal or panel reader, so cow flow won't be affected. The wireless system also makes CowScout an ideal choice for cows on pasture.

Independent data capture—will not interfere with any other cow ID system currently used on the farm.





CowScout easily integrates into various herd management softwares.



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Founded in 1881 the company is one of the largest providers of innovative equipment and process technology.

GEA is listed in the STOXX® Europe 600 Index. In addition, the company is included in selected MSCI Global Sustainability Indexes.

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